Impacts Case Study - Hawaii

(comparison of effect of benchmark and treatment option)

Conservation Effects Worksheet

Grazing Land - Range

(land use and crop)

Resource Setting: Kamuela, Hawaii

Waimea Soils, 6 - 20 % slopes.

Present Management System:

Planned Grazing System (556)

Proper Grazing Use (528)

Electric Fencing (382)

Pipeline (516)

Trough (614)

Resource Problems Before Treatment:

Overgrazing

Sheet and rill erosion

Gully erosion

Wind erosion

Sedimentation runoff

IMPACTS	DECISIONMAKERS EVALUATION	
	(+ / -)	Comment
Reduce overgrazing	+	Improved vegetative cover
Soil loss reduce by 3 tons/acre	+	Conserve soil
Reduced gully erosion		
Fewer undesirable plant species	+	Better quality forage
Less wind erosion	+	Conserve soil
Less soil compaction	+	Better root development
Intensive grazing management required	-	Increased management requirements
10% increase in fuel consumption 10gal/wk	-	10% increase in fuel consumption
labor cost reduced - additional 250 AU/hired hand	+	More animal units maintained with fewer man hours
Instillation cost: - $0.20/ft - electric fence and energizer - $450/300 gal fiberglass trough	-	Initial instillation cost
Yields increased - 50% increase in calf crop - additional 80 calves for market - calves avg. 350 lbs/$0.60 - $16,800	+	50% increase in calf crop for grazing cell
Comments:		